

✓ L7 ANSWER 223 OF 295 HCAPLUS COPYRIGHT 2000 ACS
AN 1992:510137 HCAPLUS
DN 117:110137

TI Manufacture of water-soluble flavonol glycosides with galactosidase and
glucanotransferase

IN Washino, Ken

PA San-Ei Kogaku Kogyo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 04066098 A2 19920302 JP 1990-179838 19900706

AB The title glycosides having glucose and galactose residues, useful as
stable antioxidants and UV absorbers for foods, cosmetics, and
pharmaceuticals (no data), are manufd. by treatment of quercetin
glycosides with galactose-transferring enzymes and glucose-transferring
enzymes in the presence of lactose or galactooligosaccharides and starch.
DMSO soln. of rutin was treated with .beta.-galactosidase, cyclodextrin
glucanotransferase, and phosphate buffer contg. lactose and dextrin at
60.degree. for 4 h to produce 60% glucose- and galactose-modified rutin
(rhamnose:glucose:galactose = 1.3.5:1.5). The products showed .gtoreq. 10
wt.% soly. in H2O, vs. 0.001 wt.%, for rutin.

BEST AVAILABLE COPY